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- (71) Applicant (*for all designated States except US*): **MERCK & CO., INC.** [US/US]; 126 East Lincoln Avenue, Rahway, NJ 07065-0907 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): **PARKER, Dann, LeRoy** [US/US]; 126 East Lincoln Avenue, Rahway, NJ 07065-0907 (US). **WILKENING, Robert, R.** [US/US]; 126 East Lincoln Avenue, Rahway, NJ 07065-0907 (US). **MENG, Dongfang** [CN/US]; 126 East Lincoln Avenue, Rahway, NJ 07065-0907 (US). **RATCLIFFE, Ronald, W.** [US/US]; 126 East Lincoln Avenue, Rahway, NJ 07065-0907 (US).
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(54) Title: **ESTROGEN RECEPTOR MODULATORS**

(57) Abstract: The present invention relates to compounds and derivatives thereof, their synthesis, and their use as estrogen receptor modulators. The compounds of the instant invention are ligands for estrogen receptors and as such may be useful for treatment or prevention of a variety of conditions related to estrogen functioning including: bone loss, bone fractures, osteoporosis, metastatic bone disease, Paget's disease, periodontal disease, cartilage degeneration, endometriosis, uterine fibroid disease, hot flashes, increased levels of LDL cholesterol, cardiovascular disease, impairment of cognitive functioning, cerebral degenerative disorders, restenosis, gynecomastia, vascular smooth muscle cell proliferation, obesity, incontinence, and cancer, in particular of the breast, uterus and prostate.

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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/28855

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC(7) : C07D 307/02, 333/10; A61K 31/341, 31/381

US CL : 549/76, 491, 497; 514/438, 461

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 549/76, 491, 497; 514/438, 461

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
EAST, CAS ONLINE**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5,891,683 A (USMAN et al) 06 April 1999 (06.04.1999)	1-5
A	MORIMOTO et al. CO-Transfer Carbonylation Reactions. A Catalytic Pauson-Khand-Type Reaction of Enynes with Aldehydes as a Source of Carbon Monoxide. Journal of American Chemical Society, March 2002, Vol 124, 3806-3807.	1-5



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later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

**"X"**

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

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document member of the same patent family

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Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Facsimile No. (703)305-3230

Authorized officer

Golam M Shameem

Telephone No. (703) 308-1235